

## Mouse anti-Human MCM6 Monoclonal Antibody | anti-MCM6 antibody

Anti-MCM6 Antibody (monoclonal, 10I9)

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                                                  |
|-----------|-------|------------|---------------------------------------------------------------------------------------------------------------|
| AAA19372  | Mouse | Human      | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

MCM6; Monoclonal Antibody; Anti-MCM6 Antibody (monoclonal; 10I9); DNA replication licensing factor MCM6; p105MCM; minichromosome maintenance complex component 6; anti-MCM6 antibody

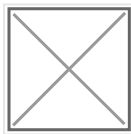
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                      |
| Reactivity                                     | Human                                                                                                                                                                                                      |
| Clonality                                      | Monoclonal                                                                                                                                                                                                 |
| Isotype                                        | Mouse IgG1                                                                                                                                                                                                 |
| Clone Number                                   | 10I9                                                                                                                                                                                                       |
| Specificity                                    | Mouse IgG monoclonal antibody for MCM6 detection.                                                                                                                                                          |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                    | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.                                                                                                                               |
| Applicable Applications for anti-MCM6 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                               |
| Application Notes                              | WB: 0.25-0.5ug/ml Human <br>IHC-P: 2-5ug/ml Human <br>ICC/IF: 5ug/ml Human <br>FC/FACS/FCM: 1-3ug/1x106 cells Human                                                                                        |
| Immunogen                                      | E Coli-derived human MCM6 recombinant protein (Position: Q14-D821).                                                                                                                                        |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                  | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of K562 cells using anti-MCM6 antibody (AAA19372). Overlay histogram showing K562 cells stained with AAA19372 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- MCM6 Antibody (AAA19372, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-mouse IgG (BA1126, 5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



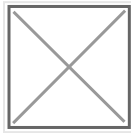
IF (Immunofluorescence)

Figure 8. IF analysis of MCM6 using anti- MCM6 antibody (AAA19372).MCM6 was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5&mu;g/mL mouse anti- MCM6 Antibody (AAA19372) overnight at 4 degree C. DyLight&reg;488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 7. IHC analysis of MCM6 using anti-MCM6 antibody (AAA19372).MCM6 was detected in paraffin-embedded section of human gallbladder adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2&mu;g/ml mouse anti-MCM6 Antibody (AAA19372) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of MCM6 using anti-MCM6 antibody (AAA19372).MCM6 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2&mu;g/ml mouse anti-MCM6 Antibody (AAA19372) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of MCM6 using anti-MCM6 antibody (AAA19372).MCM6 was detected in paraffin-embedded section of human ovarian serous adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2&mu;g/ml mouse anti-MCM6 Antibody (AAA19372) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of MCM6 using anti-MCM6 antibody (AAA19372).MCM6 was detected in paraffin-embedded section of human ovarian adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2&mu;g/ml mouse anti-MCM6 Antibody (AAA19372) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MCM6 antibody | MCM6(Minichromosome maintenance, s. pombe, homolog of, 6) is a protein that in humans is encoded by the MCM6 gene. MCM6 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The MCM genes were originally identified in yeast defective in minichromosome maintenance and have since been shown to play roles in the progression of the cell cycle; many are cell division control genes. The MCM6 gene is mapped on 2q21. 3. Mcm 6 has recently been shown to interact strongly Cdt1 at defined residues, by mutating these target residues Wei et al. observed lack of Cdt1 recruitment of Mcm2-7 to the pre-RC. An approximately 200-kb region surrounding the C/T(-13910) polymorphism in MCM6 intron 13 functioned as an enhancer of the lactase gene promoter in intestinal cell culture. |
| References                                         | 1. Bersaglieri, T., Sabeti, P. C., Patterson, N., Vanderploeg, T., Schaffner, S. F., Drake, J. A., Rhodes, M., Reich, D. E., Hirschhorn, J. N. Genetic signatures of strong recent positive selection at the lactase gene. Am. J. Hum. Genet. 74: 1111-1120, 2004.<br>2. Coelho, M., Luiselli, D., Bertorelle, G., Lopes, A. I., Seixas, S., Destro-Bisol, G., Rocha, J. Microsatellite variation and evolution of human lactase persistence. Hum. Genet. 117: 329-339, 2005.<br>3. Enattah, N. S., Sahi, T., Savilahti, E., Terwilliger, J. D., Peltonen, L., Jarvela, I. Identification of a variant associated with adult-type hypolactasia. Nature Genet. 30: 233-237, 2002.                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 2497824                                                                                                                                                              |
| NCBI GeneID                      | 4175                                                                                                                                                                 |
| UniProt Accession #              | Q14566; Q13504; Q99859; B2R6H2                                                                                                                                       |
| Molecular Weight                 | 821                                                                                                                                                                  |
| NCBI Official Full Name          | DNA replication licensing factor MCM6                                                                                                                                |
| NCBI Official Synonym Full Names | minichromosome maintenance complex component 6                                                                                                                       |
| NCBI Official Symbol             | MCM6                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | Mis5; P105MCM; MCG40308                                                                                                                                              |
| NCBI Protein Information         | DNA replication licensing factor MCM6; minichromosome maintenance deficient (mis5, S. pombe) 6; MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) |
| UniProt Protein Name             | DNA replication licensing factor MCM6                                                                                                                                |
| UniProt Gene Name                | MCM6                                                                                                                                                                 |
| UniProt Entry Name               | MCM6_HUMAN                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/mcm6-antibody-clone-10i9-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19372>